

What is claimed is:

1. An emitter having a plurality of types of light-emitting units with different changes in emission characteristics over time, comprising a deterioration adjustment device which
5 adjusts the deterioration of the emission characteristics over time in a predetermined type of light-emitting unit.
2. An emitter according to claim 1,
wherein the light-emitting units respectively have a light-emitting layer and a
10 hole donor which supplies positive holes to the light-emitting layer, and
the deterioration adjustment device is the hole donor in which the thickness is adjusted based on the deterioration in emission characteristics over time in the predetermined type of light-emitting unit.
- 15 3. An emitter according to claim 1,
wherein the light-emitting units respectively have a light-emitting layer and an electron donor which supplies electrons to the light-emitting layer, and
the deterioration adjustment device is the electron donor in which the thickness is adjusted based on the deterioration of emission characteristics over time in the
20 predetermined type of light-emitting unit.
4. An emitter according to claim 1,
wherein the light-emitting units respectively have a light-emitting layer and a
hole donor which supplies positive holes to the light-emitting layer, and
25 the deterioration adjustment device is at least one of either the light-emitting layer

and the hole donor into which impurities are mixed based on the deterioration of emission characteristics over time in the predetermined type of light-emitting unit.

5. An emitter according to claim 1,

5 wherein the deterioration adjustment device adjusts the deterioration of emission characteristics over time in the predetermined type of light-emitting unit according to the light-emitting unit among the plurality of types of light-emitting units that has the largest degree of deterioration of emission characteristics over time.

10 6. An electro-optical apparatus comprising the emitter according to claim 1 as display apparatus.

7. An electronic apparatus comprising the emitter according to claim 1 as display apparatus.

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8. A manufacturing method of an emitter having a plurality of types of light-emitting units with different changes in emission characteristics over time, the method comprising a deterioration adjustment step of adjusting deterioration of the emission characteristics over time in a predetermined type of light-emitting unit.

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9. A manufacturing method of an emitter, according to claim 8,

 wherein the light-emitting units respectively have a light-emitting layer and a hole donor which supplies positive holes to the light-emitting layer, and

 the thickness of the hole donor is adjusted in the deterioration adjustment step
25 based on the deterioration of emission characteristics over time in the predetermined type

of light-emitting unit.

10. A manufacturing method of an emitter, according to claim 9, the method further comprising a discharge step of forming the hole donor by discharging a liquid containing
5 a hole donor material, and

wherein the weight or the number of drops of the liquid discharged in the discharge step is adjusted in the deterioration adjustment step.

11. A manufacturing apparatus of an emitter having a plurality of types of
10 light-emitting units with different changes in emission characteristics over time, the apparatus comprising a deterioration adjustment device which adjusts deterioration of the emission characteristics over time in a predetermined type of light-emitting unit.

12. A manufacturing apparatus of an emitter, according to claim 11,
15 wherein the light-emitting units respectively have a light-emitting layer and a hole donor which supplies positive holes to the light-emitting layer, and
the thickness of the hole donor is adjusted by the deterioration adjustment device based on the deterioration of emission characteristics over time in the predetermined type of light-emitting unit.

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13. A manufacturing apparatus of an emitter, according to claim 12, the apparatus comprising a discharge device which forms the hole donor by discharging a liquid containing a hole donor material, and
wherein the weight or the number of drops of the liquid discharged from the discharge
25 system is adjusted by the deterioration adjustment device.